

## **CLAIMS**

1. (currently amended): An adjustable stepless hinge shaft ~~comprised of~~ comprising:

a male shaft tube ~~consisting of~~ comprising:

5        a rod member;  
            a tubular hinge shaft disposed at one extremity of the said rod member;  
            a mounting section disposed at the opposite extremity of the said rod member;

a female shaft tube ~~consisting of~~ comprising:

10      a tubular sleeve conjoined to the said tubular hinge shaft;  
            a mounting section at one extremity of the said tubular sleeve;  
            an adjustment rod that is fastened and sleeve coupled into the said male shaft tube tubular hinge shaft; the features of which are:

the said male shaft tube further includes:

15      a flange formed along the surface of the said tubular hinge shaft;  
            a tapered hole section at one extremity of the said tubular hinge shaft;  
            a threaded hole section at the opposite extremity of the said tubular hinge shaft;  
            one or more lengthwise channel on the said tubular hinge shaft;

~~the said female shaft tube~~ further includes:

a columnar bore in ~~the~~ said tubular sleeve;

an annular groove near the entrance of ~~the~~ said columnar bore;

~~the said adjustment rod~~ further includes:

5 a tapered rod;

a threaded stud at one extremity of ~~the~~ said tapered rod;

a round projecting edge at the proximal end of ~~the~~ said threaded stud;

a columnar passage in ~~the~~ said tapered rod;

a slot through ~~the~~ said tapered rod, ~~the~~ said threaded stud and ~~the~~ said round

10 projecting edge that is thereby articulated along the entire supportive rod  
component.

2. (currently amended): ~~As mentioned in Claim 1 of the~~ The adjustable stepless  
hinge shaft of claim 1, wherein invention herein, ~~the~~ said round projecting edge  
on ~~the~~ said adjustment rod includes a two-sided parallel, square, or polygonal  
15 head; or a hexagonal, square or pentagonal socket in the end surface of its  
circular head having in the end surface of its circular head a hexagonal, square  
or pentagonal socket.

3. (currently amended): ~~As mentioned in Claim 1 of the~~ The adjustable stepless

hinge shaft ~~invention herein~~ of claim 1, the present invention further includes:

the said male shaft tube tubular hinge shaft ~~has~~ having a tapered tubular aspect at its outer end that is of a larger diameter;

the said female shaft tube tubular sleeve ~~has~~ having a through-hole formed at 5 the bottom portion of ~~its~~ said columnar bore;

~~the said adjustment rod lacks the said round projecting edge at its proximal end, but instead has the~~ having a said hexagonal, pentagonal, or square socket or two-sided parallel head disposed at the proximal end of its tapered rod.

4. (currently amended): ~~As mentioned in Claim 1 and Claim 3 of the The~~

10 ~~adjustable stepless hinge shaft of claim 1 or claim 3, wherein invention herein, the present invention includes~~ a plurality of annular oil grooves are formed along the surface of ~~the~~ said male shaft tube tubular hinge shaft.